

AMENDMENTS TO THE CLAIMS

Applicant respectfully requests that all previous versions of the claims be replaced with the following:

1. (Currently Amended) A linear actuator comprising:

a shaft having a male thread portion;

a worm gear speed reducer for reducing rotation of a motor in speed and transmitting the rotation to the shaft;

a female thread member which is threadedly engaged with the male thread portion and which moves forward and backward by normal or reverse rotation of the shaft;

a moving cylinder which is fixed to the female thread member and which moves forward and backward with respect to a housing; ~~and~~

a position detection apparatus which is disposed in parallel to the shaft; and

means for adjustably mounting the position detection apparatus to the housing, whereby the position detection apparatus is movable in a direction of the moving cylinder and allows detection of a position of the moving cylinder in the housing to be adjusted.

2. (Currently amended) The linear actuator according to claim 1, wherein the position detection apparatus comprises a potentiometer which converts the rotation amount of the shaft into a voltage value, ~~and the position detection apparatus is movably provided on the housing.~~

3. (Previously presented) The linear actuator according to claim 2, wherein a driven gear is mounted on a sensor shaft of the potentiometer, the driven gear is meshed with a pinion which rotates in unison with the shaft, and the potentiometer can move in an axial direction of the moving cylinder.

4. (Currently amended) The linear actuator according to claim [[3]]5, wherein the position detection apparatus comprises a potentiometer which converts the rotation amount of the shaft into a voltage value, and the potentiometer can slide in ~~[[the]]~~an axial direction of the moving cylinder.

5. (Currently Amended) A linear actuator comprising:

- a shaft having a male thread portion;
- a worm gear speed reducer for reducing rotation of a motor in speed and transmitting the rotation to the shaft;
- a female thread member which is threadedly engaged with the male thread portion and which moves forward and backward by normal or reverse rotation of the shaft;
- a moving cylinder which is fixed to the female thread member and which moves forward and backward with respect to a housing; and
- a position detection apparatus which ~~[[in]]~~ is disposed in parallel to the shaft and detects a position of the moving cylinder,

wherein ~~the mounting of~~ the position detection apparatus includes a guide pin slidably mated with a guide groove formed in the housing, and ~~allows~~ the position of the moving cylinder in the housing detected by the

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position detection apparatus ~~[[to]]~~ can be adjusted in a direction of the moving cylinder ~~in the housing~~.